No.



8700159

TO AND TO WHOM THESE PRESENTS: SHARD COME:

Northrup King Co.

Colhereus, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLI-CANT(S) FOR THE TERM OF eighteen * YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EX-LUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT TY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. United States seed of this variety (1) shall be sold by variety name only as OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

'Coker 9733'

AMENDED CERTIFICATE

*Original grant January 31, 1989 In Lestimony Watercot, I have hexeunto set my hand and caused the seal of the Plant Unriety Protection Office to be affixed Washington, D. C.

31st day of August the year of our Lord one thousand nine

hundred and eighty-nine.

Plant Variety Protection Office

ultural Marketing Service

U.S. DEPARTMENT OF AGRICULT	URE	FORM APPROVED: OMB NO. 0581-0055			
AGRICULTURAL MARKETING SER		Application is required in order to determine			
<u> </u>	if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is				
APPLICATION FOR PLANT VARIETY PROTE (Instructions on reverse)	ECTION CERTIFICATE	held confidential until certificate is issue (7 U.S.C. 2426).			
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	3. VARIETY NAME			
NORTHRUP KING CO.		,			
Coker's Pedigreed Seed Company	Coker 84-33	Coker '9733'			
4. ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code)		FOR OFFICIAL USE ONLY			
P.O. Box 340 959	(6/2) 593-7335	PVPO NUMBER			
Hartsville, South Carolina 29550	803-332-7531	8700159			
MINNEAPOLIS, MN 55440 6. GENUS AND SPECIES NAME 7. FAMILY NA					
6. GENUS AND SPECIES NAME 7. FAMILY NA	AME (Botanical)	DATE			
		July 16, 1987_			
Triticum Aestivum Gramin	neae	1 1.30 DAM. WP.M.			
		AMOUNT FOR FILING			
3. KIND NAME	DATE OF DETERMINATION	10.00			
그 이 말에 이 하는 것 같은 한번 분들은 생활을 했다.		DATE			
Wheat	August 1986	15 July 16, 1987			
0. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM		111			
partnership, association, etc.)	O.	S 5 20000			
		L DATE			
Corporation		October 271988			
1. IF INCORPORATED, GIVE STATE OF INCORPORATION		12. DATE OF INCORPORATION			
South Carolina DELAWARE		19 - 101 v 12 - 1918 - 19			
3. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S),	IF ANY, TO SERVE IN THIS APPLIC	CATION AND RECEIVE ALL PAPERS			
Howard F. Harrison ROBERT	W. Romie				
Galanda Badianad Cand Company NORTHRU	P KING CO.	14 10 \ FOR - 12 10 F			
P.U. DUX Y		(612) 593-7305			
1100 mg 21110	55440 PHONE (Include are	ea code): (803) 332 753/			
14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMI	ITTED				
a. Exhibit A, Origin and Breeding History of the Variety (See	the contract of the contract o	otection Act.)			
	the contract of the contract o	otection Act.)			
그 가프트 그 그는 그 가게 되고 있다. 그는 사람들은 그 가장 그리고 있는 것이 없었다.	e Section 52 of the Plant Variety Pro				
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FORM LS-470 (3-86)

(Coker '9733') Wheat:

EXHIBIT A Origin and Breeding History of the Variety

1971-72	Cros	ss No. x911: Coker 71-21/BbII//Atr. 71
1972 - 73	F1	Plants
1973-74	F2	Spaced Plants
1974-75	F3	Headrows
1975-76	F4	Headrows
1976	F5	Summer Greenhouse Bulk
1976-77	F6	Spaced Plants
1977-78	F7	Headrows
1978-79	F8	Headrows
1979-80	F9	Headrows
1980-81	F10	Preliminary yield test
1981 - 82	F11	Headrows
1982-83	F12	Yield Test
1983-84	F13	Increase Block 84-33

Several years of testing and observation have shown the variety to be genetically stable and uniform. Variants that are up to $12\ \mathrm{cm}$ taller may occur as .1 per cent.

Coker (9733) EXHIBIT B Novelty Statement

'9733' is more nearly like Tyler, but differs in being resistant to mildew, leaf rust and stem rust as recorded on pages 20, 21, 22 and 23 of the $1986\ SRRWW\ report.$

POWDERY MILDEW

· '	EXPT GA	PLNS Ga	T1F1 GA	LAFY IN	WIND In	QTUR MD	NC NC	TIDE NC	FLOR SC	* OVTN TX	WARS VA	CV MEAN
1 SALUDA	1.0											
2 FL 302		8.0	9.0		2.3				10.0	0.0	5.0	3.9
3 T 70-302	0.0	0.0	0.0		1.0			2.0	10.0	0.0	0.0	0.6
4 TYLER	0.0	0.0	1.0		4.0	0.0	3.0	4.0	10.0	1.0	1.0	1.6
	2.0	5.0	6.0		1.7	0.0	4.5	4.0	20.0	0.0	3.0	2.6
5 MD 55-217 63	0.0	0.0	0.0	0.0	1.0	1.0	1.5	3.0	0.0	0.0	0.0	0.7
6 MD 55-22-76	2.0	0.0	0.0	0.0	1.0	0.0	1.0	3.0	0.0	0.0	0.0	0.7
7 PIONEER EXP W9021L	1.0	0.0	0.0	0.0	4.0	0.0	4.5	2.0	0.5	0.0	2.0	1.4
8 MD 72004	0.0	0.0	2.0	0.0	1.0	0.0	4.5	2.0	0.5	0.0	1.0	1.1
9 NC 81-58	0.0	4.0	6.0	0.0	1.3	0.0	4.5	4.0	0.0	3.0	1.0	2.4
10 GA 781014-3	0.0	0:0	1.0	0.0	MSG	0.0	4.5	4.0	20.0	0.0	2.0	1.3
11 GA 73016-2	0.0	0.0	0.0	0.0	1.0	0.0	0.5	1.0	0.0	0.0	0.0	0.3
12 NA-SW76-59	5.0	7.0	5.0	3.0	4.7	1.0	8.5	5.0	20.0	3.0	3.0	
13 FL 72185A101-5-9	0.0	0.0	0.0	MSG	1.0	1.0	2.5	1.0	0.0	0.0		4.5
14 FL 7927-621	0.0	0.0	0.0	MSG	1.0	0.0	0.5	1.0	0.5		1.0	0.7
15 FL 7924-D13-414	0.0	0.0	0.0	0.0	1.0	0.0	1.0			0.0	0.0	0.3
16 COKER 82-27	0.0	0.0	0.0	MSG	2.7	0.0	2.5	1.0	0.5	0.0	1.D	0.4
17 COKER 84-27	0.0	0.0	2.0	0.5	1.0			2.0	0.0	0.0	0.0	0.8
18 SC 810779	0.0	0.0	1.0	MSG		0.0	3.0	3.0	10.0	0.0	1.0	-1.1
19 SC 810468	1.0	0.0	0.0	_	MSG	0.0	2.0	2.0	0.5	0.0	0.0	0.6
20 P\$ 840026	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	20.0	0.0	0.0	0.3
21 P9323 (COKER 83-23)	1.0	3.0		0.0	1.0	0.0	1.0	2.0	0.0	1.0	1.0	0.6
.22 AR 116-6	5.0		5.0	0.0	1.0	0.0	4.0	6.0	0.5	0.0	1.0	2.1
23 AR 322-21-3		9.0	8.0	2.0	5.3	0.0	5.0	9.0	0.0	5.0	4.0	5.2
24 NA 9W77-42-25	2.0	5.0	5.0	3.5	3.7	1.0	5.0	6.0	0.0	2.0	2.0	3.5
25 COKER 84-33	0.0	1.0	2.0	2.0	4.7	0.0	2.5	4.0	0.5	4.0	0.0	2.0
·	0.0	0.0	0.0	0.0	1.0	0.0	0.5	1.0	10.0	0.0	0.0	0.3
26 COKER 85-43	0.0	6.0	5.0	0.0	1.0	0.0	5.0	3.0	0.5	2.0	1.0	2.3
27 VA 82-52-64	1.0	9.0	8.0	0.0	2.0	0.0	6.5	5.0	10.0	0.0	5.0	3.7
LOCATION MEAN	0.8	2.1	2.4	0.5	20	0.4				<u>-</u>		
GROWTH STAGE OR DATE		4/11		10.0	2.0	0.1 10.0	3.2 11.1	3.3 11.1	5.3 10.0	- 0.8	1_3	

^{*}Data from FLOR represents percent of the leaf area covered by mildew and is not included in the calculation of the CV MEAN.

LEAF RUST

	BALD AR	BA) AR	PLRS GA	GA	LAF IN		N RAYI MS	D ELAY	DALS*	OVTN TX	WARS VA	CV MEA
1 SALUDA	0.0	9.0	3.0	0.0		-				·		
2 FL 302	0.0	1.0		*.0						9.0	6.0	3.
3 T 70-302	2.0	4.0								2.0	1.0	1.1
4 TYLER	8.0	9.0	-6.0						40 S	7.0	7.0	4.
5 MD 55-217 63	8.0	9.0	8.0	5.0	7.5				100 s	8.0	8.0	6.3
6 MD 55-22-76	8.0	9.0		9.0	8.5			9.0	100 S	8.0	8.0	7.1
7 PIONEER EXP W9021L	0.0	2.0	9.0	9.0	8.0			9.0	100 s	8.0	8.0	7.3
8 MD 72004	0.0	7.0	4.0	1.0	1.5		1.0	4.5	30 MS	3.0	6.0	2.3
9 NC 81-58	0.0	MSG	5.0	0.0	7.5	1.0	1.0	2.0	MSG	7.0	6.0	3.7
10 GA 781014-3	0.0	MSG	0.0	0.0	3.0		0.0	1.0	MSG	3.0	1.0	0.9
11 GA 73016-2	0.0	MSG	3.0	1.0	1.3	0.0	1.0	1.0	20 MS	.4.0	1.0	1.4
12 NA-SW76-59	0.0		0.0	0.0	1.0	0.0	1.0	0.5	MSG	2.0	1.0	0.6
13 FL 72185A101-5-9	0.0	9.0	2.0	0.0	3.0	0.0	1.0	2.0	MSG	2.0	1.0	2.0
14 FL 7927-621	0.0	1.0	5.0	2.0	1.3	0.0	0.0	2.5	60 MS	6.0	2.0	2.0
15 FL 7924-D13-414	0.0	0.0	0.0	0.0	MSG	0.0	0.0	0.5	10 MS	3.0	1.0	0.5
16 COKER 82-27	0.0	1.0	0.0	0.0	1.3	0.0	1.0	1.5	60 S	4.0	3.0	1.2
17 COKER 84-27		0.0	1.0	0.0	2.3	0.0	1.0	1.5	10 MS	3.0	1.0	1.0
18 SC 810779	0.0	3.0.	0.0	0.0	4.5	0.0	1.0	1.0	20 s	3.0	1.0	1.4
19 SC 810468	0.0	1.0	0.0	0.0	MSG	0.0	0.0	2.5	10 MR	2.0	3.0	0.9
20 PS 840026	0.0	3.0	0.0	0.0	0.5	0.0	0.0	1.0	20 MR	2.0	1.0	0.8
21 P9323 (COKER 83-23)	0.0	5.0	4.0	1.0	5.5	1.0	2.0	3.5	70 s	7.0	5.0	3.4
22 AR 116-6	0.0	2.0	1.0	1.0	4.5	0.0	8.0	2.5	60 s	7.0	1.0	
23 AR 322-21-3	0.0	3.0	1.0	0.0	4.3	0.0	3.0	3.0	20 S	7.0	4.0	2.7
24 NA 9W77-42-25	2.0	5.0	3.0	0.0	6.5	1.0	1.0	3.0	20 S	6.0	1.0	2.5
	0.0	4.0	4.0	0.0	5.5	1.0	3.0	3.5	30 MS	7.0	7.0	2.9
25 COKER 84-33	0.0	0.0	0.0	0.0	0.0	٥.٥	0.0	0.0	20 MR	2.0		3.5
26 COKER 85-43	0.0	4.0	0.0	0.0	2.0	0.0	3.0	1.0	30 S	6.0	1.0	0.3
27 VA <i>B</i> 2-52-64	4.0	9.0	4.0	0.0	2.0	2.0	9.0	5.0	40 s	9.0	2.0 8.0	1.8 5.2
LOCATION MEAN GROWTH STAGE OR DATE		1.2	4.2	2.7 4/11	1.2	3.5 10.5	0.6 10.5	1.7	2.9 42	·	5.1	3.5

*Data from DALS is percent leaf area infected and includes an infection type descriptor: S=susceptible; MS=moderately susceptible; and MR=moderately resistant. Data from DALS is not included in the CV MEAK.

STEM RUST

	lafy In		DALS*
1 SALUDA	7.0		70.0 S
2 FL 302	0.3		1.0 MR
3 T 70-302	MSG		50.0 S
4 TYLER	8.0	•	80.0 5
5 MD 55-217 63	7.3		20.0 MR
6 MD 55-22-76	3.3	•	10.0 MR
7 PIONEER EXP W9021L	0.5		0.0 MK
8 MD 72004	5.0		MSG
9 NC 81-58	7.3		
10 GA 781014-3	MSG		MSG
11 GA 73016-2	5.0	•	80.0 S
12 NA-SW76-59	8.0		MSG
13 FL 72185A101-5-9	MSG		MSG
14 FL 7927-621	MSG		1.0 MR
15 FL 7924-D13-414	0.3		80.0 S
16 COKER 82-27			10.0 MS
17 OKER 84-27	7.3		90.0 S
18 SC 810779	8.0		90.0 S
19 SC 810468	MSG		70.0 S
20 PS 840026	0.5		10.0 MR
21 P9323 (COKER 83-23)	8.0		30.0 S
22 AR 116-6	6.0		50.0 S
23 AR 322-21-3	6.3		70.0 S
	8.5		90.0 S
24 NA 9W77-42-25	5.5		60.0 S
25 COKER 84-33	0.0		10.0 MR
26 COKER 85-43	7.5		70.0 S
27 VA 82-52-64	7.5		80.0 S
LOCATION MEAN	5.3		48.8
GROWIH STAGE	10.5		4010

^{*}Data from DAIS is percent leaf area infected and includes an infection type descriptor: S=susceptible; MS=moderately susceptible; and MR=moderately resistant. Trace found on MD 72004, NA-SW76-59, and Coker 82-27 at PINS.

The accessions listed below were tested for reaction to leaf and stem rust by D. V. McVey of the Cereal Rust Lab, St. Paul, MN. The data is percent infection and infection types.

	IEAF		
	Reading 1	Reading 2	STEM RUST
10 GA 781014-3	TS	20 MS-S	90 S
13 FL 72185A101-5-9	TS	20 MS-S	80 S
14 FL 7927-621 15 FL 7924-D13-414	TS	20 MS-S	80 S
16 OKER 82-27	TS	5 S	60 S
17 COKER 84-27	TS TS	5 R-MR	60 S
18 SC 810779	TMR	5 R-MR IMR	40 S
19 SC 810468	TS	5 MS-S	TR 5 MS
20 PS 840026 21 P9323 (COKER 83-23)	TS	40 MS-S	40 S
22 AR 116-6	TS	40 MS-S	60 S
23 AR 322-21-3	10 S 10 S	40 S	80 S
24 NA 9W77-42-25	40 S	60 MS-S 60 S	80 S
25 COKER 84-33	'IMR	5 MS	90 S
26 OKER 85-43	TS	5 MS-S	10 MR-MS 30 S
27 VA 82-52-64	5 MS-S	10 MS-S	90 S

FORM APPROVED: OMB NO.0581-0055

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, MEAT, GRAIN AND SEED DIVISION BELTSVILLE, MARYLAND 20785

EXHIBIT C

OBJECTIVE DESCRIPTION OF VARIETY

	RITICUM SPP.)
NAME OF APPLICANT(S)	FOR OFFICIAL USE ONLY
Coker's Pedigreed Seed Company ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)	P VPO NUMBER
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)	8700159
P.O. Box 340	VARIETY NAME OR TEMPORARY DESIGNATION
Hartsville, South Carolina 29550	
Place the appropriate number that describes the varietal charact Place a zero in first box (e.8. 0 8 9 or 0 9) when number	er of this variety in the boxes below. is either 99 or less or 9 or less.
1. KIND:	
1 1 = COMMON 2 = DURUM 3 = EMMER 4 = SPELT	5 = POLISH 6 = POULARD 7 = CLUB
2. TYPE:	
2 1 = SPRING 2 = WINTER 3 = OTHER (Specify)	1 = SOFT 3 = OTHER (Specify) 2 = HARD
2 1 = WHITE 2 = RED 3 = OTHER (Specify)	
3. SEASON - NUMBER OF DAYS FROM EMERGENCE TO:	
FIRST FLOWERING	LAST FLOWERING
4. MATURITY (50% Flowering):	
0 7 NO. OF DAY'S EARLIER THAN	. 1 = ARTHUR 2 = SCOUT 3 = CHRIS 7=Tyler
NO. OF DAYS LATER THAN	4 = LEMHI 5 = NUGAINES 6 = LEEDS
5. PLANT HEIGHT (From soil level to top of head):	
0 8 7 CM. HIGH	
0 5 CM. TALLER THAN	
CM. SHORTER THAN	1 = ARTHUR 2 = SCOUT 3 = CHRIS 7=Tyler 4 = 1 FMH1 5 = NUGAINES 6 = LEEDS
. PLANT COLOR AT BOOTING (See reverse):	7. ANTHER COLOR:
RHS 147B	2 = YELLOW 2 = PURPLE
STEM:	
- J.L.M.	
1 Anthocyanin: I = ABSENT 2 = PRESENT	2 Waxy bloom: I = ABSENT 2 = PRESENT
Hairiness of last internode of rachis: 1 = ABSENT 2 = PRESENT	1 Internodes: 1 = HOLLOW 2 = SOLID
0 5 NO. OF NODES (Originating from node above ground)	2 3 CM. INTERNODE LENGTH BETWEEN FLAG LEAF
. AURICLES:	
1 Anthocyanin: 1 = ABSENT 2 = PRESENT	2 Hairiness: 1 = ABSENT 2 = PRESENT
D. LEAF:	
Flag leaf at 1 = ERECT 2 = RECURVED booting stage: 3 = OTHER (Specify):	2 Flag leaf: 1 = NOT TWISTED 2 = TWISTED
2 Hairs of first leaf sheath: I = ABSENT 2 = PRESENT	2 Waxy bloom of flag leaf sheath: 1 = ABSENT 2 = PRESENT
1 9 MM. LEAF WIDTH (First leaf below flag leaf)	2 3 CM. LEAF LENGTH (First lost below flag lost):
	<u></u>

il. HEAD:			
2 Density: 1 = LAX	2 = DENSE	1 1 .	ING 2 = STRAP 3 = CLAVATE (Specify)
2 Awnedness: 1 = AW	LESS 2 = APICALLY AWNUETED (2)	SAWNLETED 4 = AWNE	
2 Color at maturity: 5	= WHITE 2 = YELLOW 3 = PINK 4 = BROWN 6 = BLACK 7 = OTHE		
CM. LENGTH	to the same of	MM. WIDTH	
12. GLUMES AT MATURI Length: 1 = SHORT 3 = LONG(6)	(CA. 7 mm.) 2 = MEDIUM (CA. 8 mm.)	3 Width: 1 = NARRO	
1 6 1	NG 2 = OBLIQUE 3 = ROUNDED RE 5 = ELEVATED 6 = APICULATE	1 Beak: 1 = OBTUSE	2 = ACUTE 3 = ACUMINATE
13. COLEOPTILE COLOR:	the state of the s	14. SEEDLING ANTHOCY	ANIN:
2 1 = WHITE 2 = RE	ED 3 = PURPLE	I = ABSENT 2	PRESENT
15. JUVENILE PLANT GR	OWTH HABIT:	<u> </u>	
2 1 = PROSTRATE	2 = SEMI-ERECT 3 = EREC	:τ	
16. SEED:			
1 Shape: 1 = OVATE	2 = OVAL 3 = ELLIPTICAL	1 Cheek: 1 = ROUND	ED 2 = ANGULAR
2 Brush: 1 = SHORT	2 = MEDIUM 3 = LONG	Brush: I = NOT Co	DLLARED 2 = COLLARED
Phenol reaction (See instructions):	1 = IVORY 2 = FAWN 3 = LT. BROWN 4 = BROWN 5 = BLACK	\	
Color: I = WHITE	2 = AMBER 3 = RED 4 = PURPLE	5 = OTHER (Specify)	RHS 164B
0 7 MM. LENGTH	0 3 мм. WIDTH	3 8 GM. PER 1000	SEEOS
17. SEED CREASE:			
	ESS OF KERNEL 'WINOKA'	Depth: 1 = 20% Of	LESS OF KERNEL 'SCOUT'
2 = 80% OR LE	SS OF KERNEL 'CHRIS'		LESS OF KERNEL 'CHRIS'
3 = NEARLY A	S WIDE AS KERNEL 'LEMHI'	3 = 50% OF	LESS OF KERNEL 'LEMHI'
	ed, 1 = Susceptible, 2 = Resistant)	. <u> </u>	
STEM RUST (Races)	2 LEAF RUST (Racee)	STRIPE RUST (Races)	LOOSE SMUT
2 POWDERY MILDEW	DÜNT	OTHER (Specify)	
19. INSECT: (0 = Not Teste	d, 1 = Susceptible, 2 = Resistant)		
0 SAWFLY	0 APHID (Bydv.)	GREEN BUG	CEREAL LEAF BEETLE
OTHER (Specily)	HESSIAN FLY RACES:	GP A	В
)	DE	F G
	TY MOST CLOSELY RESEMBLES THAT SE		
CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant tillering	Tyler	Seed size	Tyler
Leaf size	Tyler	Seed shape	Tyler
Leaf color	Tyler Tyler	Coleoptile elongation	Tylek
Leaf carriage		Seedling pigmentation	Other Receipt
Art. Francisco	INSTRUC		O COLONIO KIZ
GENERAL: The following pr	ublications may be used as a reference aid fo	or the standardization of term	s and processures to Completing this form
(a) L.W. Briggle and Bulletin 1278, Un	L. P. Reitz, 1963, <u>Classification of Triticur</u> ited States Department of Agriculture.	n Species and Wheat Varieties	Grown in the United States Technical
(b) W.E. Walls, 1965, seed testing prepa	A Standardized Phenol Method for Testing Water by the Association of Official Seed Ana	heat Seeds for Varietal Purity lysts. (See attachment.)	, contributed No. 28 to the handbook of
LEAR COLOR. Minkersey	والأروان والمراج والمراجع	والأحرام والمراجعا المراو والمستميلات	he described when

FORM LMGS 470-6 (6-82) (Reverse)

(Coker 9733) Wheat $$\tt EXHIBIT\ D$$ Additional Description of the Variety

Coker 9733 is a soft red winter wheat with a semi-decumbent growth habit. Plant color is similar to RHS 147B. Plant height has averaged about 87 cm or slightly taller than 'Tyler'.

Heads are rather long, mid-dense, apically awnleted with long upper internode that is up to 25 $\,\mathrm{cm}.$

Resistant to leaf rust, stem rust and powdery mildew races prevalent during testing period.

Apparent areas of adaptation are the Southeastern Piedmont and Coastal Plain and the Mississippi Delta up to Northern Arkansas.

EXHIBIT E

Statement of Applicant's Ownership

Coker's Pedigreed Seed Company, Hartsville, South Carolina, believes it is the sole, original and first breeder of the 'Coker 9733' variety of wheat for which it solicits a certificate of protection.

SOFT WHEAT ANALYSIS

24 . AR J MIII: Cotto	Cookie Hard Flour Stren Cookie Over ress Yield 9th 3ake All REMARKS	9 - 15 5.5FT 5.5F	17:27 3.5 5 5 5 5 5 5 60 6 6 6 6 6 6 6 6 6 6 6 6	\$ 25	Sistering offers
\$ \$ 1 \$ 1 \$ 1 \$ 1 \$ 1 \$ 1 \$ 1 \$ 1 \$ 1 \$	Bu Hard Flour Hilling FLOUR ANALYSIS WT. ness Yield Ash and Prot. Peak AWRC 1b. W. V. Og. 8 8 5/refe 8 min 8	1 1 5 30 31 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	55.3 647 114 36 336 77 74 603 55.7 679 73.8 33 37.9 94 53.1 55.7 679 610 38 314 77 8.3 55.9 65.1 66.0 37 35.3 96. 493 56.0 66.0 612 37 33.9 98 531	52 8: 68 1 562 39 31.7 10.0 57.8 52 8: 68 1 5626 39 31.3 10.4 58.5 746 8 10 10 10 58.5	
	0. 0.		312 / Color Januar Kaling 1927 312 / Color 9323 242 / Aba 9733 / Color 84-57 272 / Aba 9733 / Color 84-53	5 900/00/00 (5) 7 300/4/20) 4 4-00 100 1000	

ASSIGNMENT OF PLANT VARIETY PROTECTION CERTIFICATES

WHEREAS, COKER'S PEDIGREED SEED COMPANY, a South Carolina corporation ("Coker's"), having its offices at 900 Darlington Highway, Hartsville, South Carolina 29550, has adopted and used and is the sole and exclusive owner of certain United States Plant Variety Protection Certificates and similar rights under laws of countries other than the United States as listed in Exhibit A hereto:

WHEREAS, COKER'S PEDIGREED SEED CO. and NORTHRUP KING CO., a Delaware corporation ("NK"), have entered into an Asset Purchase Agreement, dated July 20, 1988, providing for the purchase and sale of substantially all of the assets and business of Coker's and the assumption of certain of Coker's liabilities and obligations by NK; and

WHEREAS, NK desires to acquire the right, title and interest in, to and under the Plant Variety Protection Certificates listed on Exhibit A hereto and the pending applications hereto (collectively, the "Plant Variety Protection Certificates").

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, Coker's hereby sells, assigns, transfers and sets over to NK the Plant Variety Protection Certificates. Coker's further agrees, at no cost to it, to execute and deliver to NK, upon the request of NK, any further instrument of assignment that may be necessary to effectuate the transfer of each Plant Variety Protection Certificate.

IN WITNESS WHEREOF, Coker's has caused this instrument to be executed by its duly authorized representative as of the 20th day of July, 1988.

COKER'S PEDIGREED SEED COMPANY

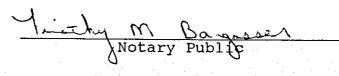
By:
E. Joe Dahmer
President

STATE OF MINNESOTA)
) ss:
COUNTY OF HENNEPIN)

On this 20th day of July, 1988, before me, a Notary Public in and for the County aforesaid, the undersigned officer, E. Joe Dahmer, personally appeared and acknowledged himself to be the President of Coker's Pedigreed Seed Co., and that he executed the foregoing instrument for the purposes therein.

WITNESS my hand and seal this 20th day of July, 1988.





Cotton Varieties, Continued

Variety Name	U.S. Plant Variety Certificate Number	Issue Date	Term (Yrs.)
Coker 3131	8100019	Sept. 24, 1981	18
Coker 208	8300082	Sept. 29, 1983	18
Coker 139	8700070	Dec. 18, 1987	18
	Soft Red Winter W	Theat Varieties	
		•	
Coker 68-15	7200014	Mar. 6, 1974	17
Coker 68-19	7200015	Mar. 6, 1975	17
Coker 747	76TQ015	Sept. 20, 1978	17
Coker 762	8000152	Dec. 10, 1981	18
Coker 797	8000145	Dec. 10, 1981	18
Coker 916	8300036	Sept. 27, 1985	18
Coker 983	8400058	Dec. 31, 1980	18
McNair 701	7200038	Feb. 26, 1974	17
McNair 4823	7200037	Apr. 8, 1975	17
RHS 8232	8400136	Oct. 31, 1985	18
9227	8600009	May 31, 1988	18
9323	8600010	Apr. 29, 1988	18
McNair 1813	7500006	May 1, 1975	17
McNair 1003	7700084	Aug. 10, 1978	17
Coker 833	8800005(1)	Oct. 2, 1987 ⁽¹⁾	
Coker 9733	8700159(1 ['])	July 16, 1987 ⁽¹⁾	•••
Coker 9766	8700160(1)	July 17, 1987 ⁽¹⁾	••• • • • • • • • • • • • • • • • • •

⁽¹⁾ Application number and filing date.